Missouri State Interoperability Executive Committee 700 MHz Interoperable Channel Template

The Missouri State Interoperability Executive Committee (MO SIEC) has developed and agreed upon this interoperability template for the use of the FCC designated 700 MHz interoperability channels in Missouri. **The 700 MHz channels designated as Interoperability Channels by the Commission are required to utilize only ANSI/TIA/EIA 102 (Project 25) standard compliant equipment in the implementation of these channels**. *This template varies somewhat in its nomenclature and channel labeling from the recommendations established and submitted to the FCC from the National Coordination Committee (NCC) Interoperability Subcommittee in 2003, but the intent of the consistency promoted in the NCC recommendations exists in the Missouri plan. Some NCC proposal alterations and characteristics of the plan include:*

Network Access Code- In the Project 25 Common Air Interface definition, the Network Access Code (NAC) is analogous to the use of CTCSS and CDCSS signals in analog radio systems. It is a code transmitted in the pre-amble of the Project 25 signal and repeated periodically throughout the transmission. Its purpose is to provide selective access to and maintain access to a receiver. There are up to 4096 individual NAC codes in existence, but the NCC recommended the NAC code of $293 which is considered the default NAC value, be required for use on the 700 MHz public safety interoperability channels as designated by the Commission. The Missouri SIEC concurs with that recommendation and has accepted NAC Code $293 as part of the Missouri strategy.

Talk Group ID- In the Project 25 Common Air Interface definition, the Talk Group ID on conventional channels is analogous to the use of talk groups in trunking. In order to ensure that all users can communicate in the conventional mode, all units should use a common Talk Group ID. The Missouri SIEC requirement value for Project 25 default value for Talk Group ID =$0001, which is consistent with the NCC recommendation.

Manufacturers ID The Project 25 Common Air Interface allows the ability to define manufacturer specific functions. In order to ensure that all users can communicate, regardless of manufacturer, all Missouri subscriber units should NOT use a specific Manufacturer's ID, but rather should use the default value of $00.

Message ID- The Project 25 Common Air Interface allows the ability to define specific message functions. In order to ensure that all users can communicate, all units should use the default Message ID for unencrypted messages of $00000000000000000000.

Missouri SIEC determines no Encryption utilized on the 700 MHz Interoperability Channels-The Missouri SIEC has determined that no encryption will be utilized on the 700 MHz public safety interoperability channels.

Interoperability Low-Speed Data Channels-The 700 MHz channels designated as Low Speed Data Interoperability Channels by the Commission (Channels 279-280 and 921-922) are required to utilize only ANSI/TIA/EIA 102 (Project 25) data standard compliant equipment in these channels implementation. These channels are established for Low Speed Data only by FCC rule 90.531. As all interoperability channels utilize the Project 25 Common Air Interface, these channels must utilize Project 25 data. The Missouri SIEC has determined that the labels recommended for these channels will remain consistent with the NCC recommendations as outlined above.

Calling Channel re-labeling-The Missouri SIEC agreed to re-name the recommended alphanumeric channel designators for mandated national 700 MHz Calling Channels 39-40 and 681-682 to 7CALL1 and 7CALL2:

- o   Channel 39-40   7CALL1   (Previously labeled as 7CAL59)
- o   Channel 681-682 7CALL2   (Previously labeled as 7CAL75)

FCC 700 MHz Channel aggregation, designation and structure-700 MHz narrowband interoperability channels are 6.25 KHz channels aggregated together to meet 12.5 KHz or 25 KHz channel bandwidths. The Commission's rules refer to channels by numbers, where the number of the bottom half of the channel pair is listed only. An example of the numbering format used is:

- Channel 279-280, where 279 is a 6.25 KHz channel and 280 is also a 6.25 KHz channel, is an *aggregate* channel. When referred to in this manner, this is a channel that uses 12.5 KHz bandwidth (6.25 KHz + 6.25 kHz = 12.5 KHz) and the center of the 12.5 KHz channel is indicated.

- Channel 279-280 is paired with corresponding channels 1239-1240. This entire channel pair is referred to in the rules as "Channel 279-280".

- If a 25 KHz channel were being developed starting with Channel 279, the channel would be the aggregate of four (4) 6.25 kHz channels and would be labeled as 279-282 where (6.25 KHz + 6.25 KHz + 6.25 KHz + 6.25 KHz =25 KHz). Again, the upper part of the channel pair (input) that is 30 MHz above the repeater output is not listed when referring to the channel pair. It is assumed that the input to the repeater is the same bandwidth 30 MHz above the repeater output.

Licensing-The Missouri SIEC has unanimously agreed that the State of Missouri, Missouri State Highway Patrol will license Temporary Fixed Base (FBT), Temporary Repeaters (FB2T), and 6 Meter FX1 Control Stations for itinerant use of the 32 700 MHz I/O channels throughout Missouri. This would remove jurisdictional requirements of agencies throughout the state to license these channels for itinerant

use and improve Missouri's response capability and preparedness. State and local agencies will license fixed stations infrastructure base/repeaters on Commission designated interoperability channels at their own cost and under their own name with the FCC and will obtain written concurrence from the Missouri SIEC. In addition to providing the SIEC with a report outlining the scope of the interoperable initiative being established, which participating agencies are involved and how the utilization of fixed and temporary conventional operations will cooperatively interact utilizing the Incident Command system, agencies are encouraged to regularly provide feedback to the Missouri SIEC regarding their use of interoperability channels in the 700 MHz band and how this resource can be better utilized as an interoperable resource.

<u>No Secondary Trunking Usage in Missouri</u>-The SIEC agreed that in Missouri there would be no usage of the "Secondary Trunking" capabilities associated with the specific interoperability channels designated as outlined by the Commission (23-24, 103-104, 183-184, 263-264, 657-658, 737-738, 817-818, 897-898) and that these channels will be utilized as conventional, on-scene frequency resources in either the simplex or duplex mode, in accordance with the Missouri SIEC 700 MHz interoperability channel plan listed below.

"Other Service "Channels-The four (4) channels described as "Other Services" (Channel pairs 303-304, 319-320, 881-882 and 937-938) are optional channels that can be utilized by Police, Fire and EMS or any other public safety users for specific activities that promote interoperability amongst 700 MHz users in Missouri. Specific agency applications and anticipated plans for these channels should be vetted through the Missouri SIEC.

800 MHz ICALL ITAC1-4 National Calling Channels-The existing 800 MHz National Interoperability channels, ICALL and ITAC1-4, remain available to all Part 90 users to be used as an interoperable resource. Mobile and portable use of these channels are licensed by rule by the Commission, so any Part 90 user can operate mobiles and portables within the power limits as established by the Commission. While these channels are not under the purview and direction of the Region 24 700 MHz regional planning committee, they are widely utilized and should be considered as the primary calling channels from the perspective of arriving units utilizing 800 MHz subscriber units. In many instances, these channels may be more available to be used as a resource in 800 MHz only subscriber units of first responders. The 800 MHz calling channel, operating with a CTCSS tone of 156.7 Hz, should be considered the primary calling channel in Missouri since both 700 and 800 MHz equipment will be capable of operating on it. Per the Region 24 800 MHz NPSPAC Plan, duplex and simplex operation is permissible on these channels.

ICALL-ITAC1 thru 4

LABEL	Repeater Out (Talk Around)	LABEL	Repeater Input
ICALL	866.0125 MHz (TA)	**ICALLD**	821.0125 MHz
ITAC1	866.5125 MHz (TA)	**ITAC1D**	821.5125 MHz
ITAC2	867.0125 MHz (TA)	**ITAC2D**	822.0125 MHz
ITAC3	867.5125 MHz (TA)	**ITAC3D**	822.5125 MHz
ITAC4	868.0125 MHz (TA)	**ITAC4D**	823.0125 MHz

Where "D" stands for "Direct" or Talk Around Mode

Low Power 700 MHZ channels:

These channels are designated by the FCC's rules as "Low Power" channels. Each of the programming recommendations above can be amended to add low power channels, as necessary and consistent with a regions 700 MHz regional plan. These channels utilize a maximum output of 2 watts and of the twelve (12) 11 KHz channel pairs, three (3) are nationwide itinerant channels which require a nationwide license issued by the FCC and nine (9) require adherence to conditions outlines in an approved regional plan adherence as well as an FCC license. It is anticipated regions will plan for these channels to be utilized as "on-scene" resources. There have been no channel names designated to these channels and it is anticipated that regions will develop their own operational use for these channels. Channels listed below in **BLUE** are nationwide itinerant low power channels. The use of the remaining nine (9) channel pairs is dependent on conditions established in a region's 700 MHz plan.

The FCC has approved the Missouri 700 MHz plan and the nine (9) low power "analog eligible" channels are available for licensing. These channels have a 2-watt ERP limitation and users must license mobile use through a certified frequency coordinator.

LABEL	Channel Number	Channel Output	Channel Number	Channel Input
Low Power 1	1-2	764.00625 (TA)	961-962	794.00625
Low Power 2	3-4	764.01875 (TA)	963-964	794.01875
Low Power 3	5-6	764.03125 (TA)	965-966	794.03125
Low Power 4	7-8	764.04375 (TA)	967-968	794.04375
Nationwide 1	**9-10**	**764.05625 (TA)**	**969-970**	**794.05625**
Nationwide 2	**11-12**	**764.06875 (TA)**	**971-972**	**794.06875**
Low Power 5	949-950	775.93125 (TA)	1909-1910	805.93125
Low Power 6	951-952	775.94375 (TA)	1911-1912	805.94375
Low Power 7	953-954	775.95625 (TA)	1913-1914	805.95625
Low Power 8	955-956	775.96875 (TA)	1915-1916	805.96875
Low Power 9	957-958	775.98125 (TA)	1917-1918	805.98125
Nationwide 3	**959-960**	**775.99375 (TA)**	**1919-1920**	**805.99375**

Missouri SIEC requirement: 700/800 MHz licensees requesting to utilize these interoperability channels in Missouri must all program the sixteen (16) "Must Carry" channel pair indicated in Yellow below into all subscriber units with the channel labels/designators as listed. These are multi discipline channels not assigned to any particular user discipline with on-scene usage under the control of the Incident Commander and should be carried by all users with capable subscriber units, programmed to operate in both the simplex and duplex mode of operation. Two (2) of the must carry channels are low speed "data only" channels.

The use of channels above marked with Red, Blue and Turquoise will be permitted by users of specific disciplines for multi-agency/single discipline conventional on-scene communications, but not on an entirely exclusive basis. USERS OF ALL DISCIPLINES WILL BE ENCOURAGED TO PROGRAM CHANNELS SPECIFICALLY ASSOCIATED WITH THEIR DISCIPLINE IN ADDITION TO THE SIXTEEN (16) MANDATORY "MUST CARRY" CHANNELS. While these discipline specific channels will be generally utilized by those operating within a specific discipline, an on-scene Incident Commander(s) will have the authority and discretion to utilize ALL interoperability channels designated by the Commission and identified in this document as determined to be in the best interest of the public safety community. It is anticipated the "Must Carry" channels will be the platform utilized for cross discipline on-scene communications. Users should be aware of the use of the channels designated "Other Service", which can be utilized in a variety of ways to facilitate interoperability between traditional and non-traditional public safety users.

CHANNEL	CENTER in MHz	DESCRIPTION (Duplex/Simplex)	LABEL
23-24	764/794.14375	General Public Safety MANDATORY	7TAC58
23-24	*764.14375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC58D*
103-104	764/794.64375	General Public Safety MANDATORY	7TAC62
103-104	*764.64375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC62D*
183-184	765/795.14375	General Public Safety MANDATORY	7TAC66
183-184	*765.14375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC66D*
263-264	765/795.64375	General Public Safety MANDATORY	7TAC70
263-264	*765.64375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC70D*
39-40	764/794.24375	Calling Channel MANDATORY per 90.531	*7CALL1*

Channel	Frequency	Service	Code
39-40	*764.24375*	*Calling Channel MANDATORY per 90.531 (Talk Around)*	*7CALL1D*
119-120	764/794.74375	General Public Safety MANDATORY	7TAC63
119-120	*764.74375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC63D*
199-200	765/795.24375	General Public Safety MANDATORY	7TAC67
199-200	*765.24375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC67D*
279-280	765/795.74375	General Public Safety MANDATORY DATA per 90.531	7DAT71
279-280	*765.74375*	*General Public Safety MANDATORY DATA per 90.531 (Talk Around)*	*7DAT71D*
63-64	764/794.39375	Emergency Medical Service	7EMS60
63-64	*764.39375*	*Emergency Medical Service (Talk Around)*	*7EMS60D*
143-144	764/794.89375	Fire Service	7FIR64
143-144	*764.89375*	*Fire Service (Talk Around)*	*7FIR64D*
223-224	765/795.39375	Law Enforcement Service	7LAW68
223-224	*765.39375*	*Law Enforcement Service (Talk Around)*	*7LAW68D*
303-304	765/795.89375	Other Services	7TAC72
303-304	*765.89375*	*Other Services (Talk Around)*	*7TAC72D*
79-80	764/794.49375	Emergency Medical Service	7EMS61
79-80	*764.49375*	*Emergency Medical Service (Talk Around)*	*7EMS61D*
159-160	764/794.99375	Fire Service	7FIR65
159-160	*764.99375*	*Fire Service*	*7FIR65D*
239-240	765/795.49375	Law Enforcement Service	7LAW69
239-240	*765.49375*	*Law Enforcement Service (Talk Around)*	*7LAW69D*
319-320	765/795.99375	Other Services	7TAC73
319-320	*765.99375*	*Other Services (Talk Around)*	*7TAC73D*
657-658	774/804.10625	General Public Safety MANDATORY	7TAC74
657-658	*774.10625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC74D*
737-738	774/804.60625	General Public Safety MANDATORY	7TAC78
737-738	*774.60625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC78D*
817-818	775/805.10625	General Public Safety MANDATORY	7TAC82
817-818	*775.10625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC82D*
897-898	775/805.60625	General Public Safety MANDATORY	7TAC86
897-898	*775.60625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC86D*
681-682	774/804.25625	Calling Channel MANDATORY per 90.531	7CALL2
681-682	*774.25625*	*Calling Channel MANDATORY per 90.531(Talk Around)*	*7CALL2D*
761-762	774/804.75625	General Public Safety MANDATORY	7TAC79
761-762	*774.75625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC79D*
841-842	775/805.25625	General Public Safety MANDATORY	7TAC83
841-842	*775.25625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC83D*
921-922	775/805.75625	General Public Safety MANDATORY DATA per 90.531	7DAT87
921-922	*775.75625*	*General Public Safety MANDATORY DATA per 90.531 (Talk Around)*	*7DAT87D*
641-642	774/804.00625	Emergency Medical Service	7EMS76
641-642	*774.00625*	*Emergency Medical Service (Talk Around)*	*7EMS76D*
721-722	774/804.50625	Fire Service	7FIR80
721-722	*774.50625*	*Fire Service (Talk Around)*	*7FIR80D*
801-802	775/805.00625	Law Enforcement Service	7LAW84
801-802	*775.00625*	*Law Enforcement Service (Talk Around)*	*7LAW84D*
881-882	775/805.50625	Other Service	7TAC88

881-882	*775.50625*	*Other Service (Talk Around)*	*7TAC88D*
697-698	774/804.35625	Emergency Medical Service	7EMS77
697-698	*774.35625*	*Emergency Medical Service (Talk Around)*	*7EMS77D*
777-778	774/804.85625	Fire Service	7FIR81
777-778	*774.85625*	*Fire Service (Talk Around)*	*7FIR81D*
857-858	775/805.35625	Law Enforcement Service	7LAW85
857-858	*775.35625*	*Law Enforcement Service (Talk Around)*	*7LAW85D*
937-938	775/805.85625	Other Service	7TAC89
937-938	*775.85625*	*Other Service (Talk Around)*	*7TAC89D*

700 "Must Carry" Missouri required interoperability channels that must be programmed into every 700 MHz capable Missouri subscriber unit Sixteen (16 Channel Pairs)
Optional designation of Law Enforcement specific channels-Four (4) Channel Pair
Optional Designation of Fire Service Specific Channels-Four (4) Channel pair
Optional Designation of EMS Specific channels-Four (4) Channel Pair
Optional Designation of "Other Services" channels- Four (4) Channel Pair

The Missouri SIEC endorses this interoperability template as its recommended use for FCC designated interoperability channels in the 700 MHz band. The Missouri SIEC reserves the right to alter and update this plan when identified to be in the best interest of the Missouri public safety community. Changes to the 700 MHZ public safety interoperable allocations by the FCC may also require modification of this document.

Attached to this document are four (4) appendices that are recommended 700 MHz interoperability channel implementations for Fire, Law, and EMS discipline which include the "must carry" 16 channels as well as the channels the Missouri SIEC has designated for discipline specific interoperability within the 700 MHz band. These recommendations are intended to serve as guidelines for agencies implementing 700 MHz interoperability channels. Should any questions arise from this interoperability template, please feel free to contact Stephen Devine, Missouri State Interoperability Executive Committee Chairperson at 573-526-6105 or steve.devine@mshp.dps.mo.gov

Stephen T. Devine, Chairperson

Missouri State Interoperability Executive Committee

July 19, 2006

APPENDIX A
Sample Law Enforcement User SIEC Channel plan Recommendations

CHANNEL CENTER in MHz		DESCRIPTION (Duplex/Simplex)	LABEL
23-24	764/794.14375	General Public Safety MANDATORY	7TAC58
23-24	*764.14375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC58D*
103-104	764/794.64375	General Public Safety MANDATORY	7TAC62
103-104	*764.64375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC62D*
183-184	765/795.14375	General Public Safety MANDATORY	7TAC66
183-184	*765.14375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC66D*
263-264	765/795.64375	General Public Safety MANDATORY	7TAC70
263-264	*765.64375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC70D*
39-40	764/794.24375	Calling Channel MANDATORY per 90.531	7CALL1
39-40	*764.24375*	*Calling Channel MANDATORY per 90.531 (Talk Around)*	*7CALL1D*
119-120	764/794.74375	General Public Safety MANDATORY	7TAC63
119-120	*764.74375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC63D*
199-200	765/795.24375	General Public Safety MANDATORY	7TAC67
199-200	*765.24375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC67D*
279-280	765/795.74375	General Public Safety MANDATORY DATA per 90.531	7DAT71
279-280	*765.74375*	*General Public Safety MANDATORY DATA per 90.531 (Talk Around)*	*7DAT71D*
657-658	774/804.10625	General Public Safety MANDATORY	7TAC74
657-658	*774.10625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC74D*
737-738	774/804.60625	General Public Safety MANDATORY	7TAC78
737-738	*774.60625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC78D*
817-818	775/805.10625	General Public Safety MANDATORY	7TAC82
817-818	*775.10625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC82D*
897-898	775/805.60625	General Public Safety MANDATORY	7TAC86
897-898	*775.60625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC86D*
681-682	774/804.25625	Calling Channel MANDATORY per 90.531	7CALL2
681-682	*774.25625*	*Calling Channel MANDATORY per 90.531(Talk Around)*	*7CALL2D*
761-762	774/804.75625	General Public Safety MANDATORY	7TAC79
761-762	*774.75625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC79D*
841-842	775/805.25625	General Public Safety MANDATORY	7TAC83
841-842	*775.25625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC83D*
921-922	775/805.75625	General Public Safety MANDATORY DATA per 90.531	7DAT87
921-922	*775.75625*	*General Public Safety MANDATORY DATA per 90.531 (Talk Around)*	*7DAT87D*
223-224	765/795.39375	Law Enforcement Service	7LAW68
223-224	*765.39375*	*Law Enforcement Service (Talk Around)*	*7LAW68D*
239-240	765/795.49375	Law Enforcement Service	7LAW69
239-240	*765.49375*	*Law Enforcement Service (Talk Around)*	*7LAW69D*
801-802	775/805.00625	Law Enforcement Service	7LAW84
801-802	*775.00625*	*Law Enforcement Service (Talk Around)*	*7LAW84D*
857-858	775/805.35625	Law Enforcement Service	7LAW85
857-858	*775.35625*	*Law Enforcement Service (Talk Around)*	*7LAW85D*

APPENDIX B
Sample Fire Service SIEC 700 MHz Channel Plan Recommendations

CHANNEL CENTER in MHz		DESCRIPTION (Duplex/Simplex)	LABEL
23-24	764/794.14375	General Public Safety MANDATORY	7TAC58
23-24	*764.14375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC58D*
103-104	764/794.64375	General Public Safety MANDATORY	7TAC62
103-104	*764.64375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC62D*
183-184	765/795.14375	General Public Safety MANDATORY	7TAC66
183-184	*765.14375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC66D*
263-264	765/795.64375	General Public Safety MANDATORY	7TAC70
263-264	*765.64375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC70D*
39-40	764/794.24375	Calling Channel MANDATORY per 90.531	7CALL1
39-40	*764.24375*	*Calling Channel MANDATORY per 90.531 (Talk Around)*	*7CALL1D*
119-120	764/794.74375	General Public Safety MANDATORY	7TAC63
119-120	*764.74375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC63D*
199-200	765/795.24375	General Public Safety MANDATORY	7TAC67
199-200	*765.24375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC67D*
279-280	765/795.74375	General Public Safety MANDATORY DATA per 90.531	7DAT71
279-280	*765.74375*	*General Public Safety MANDATORY DATA per 90.531 (Talk Around)*	*7DAT71D*
657-658	774/804.10625	General Public Safety MANDATORY	7TAC74
657-658	*774.10625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC74D*
737-738	774/804.60625	General Public Safety MANDATORY	7TAC78
737-738	*774.60625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC78D*
817-818	775/805.10625	General Public Safety MANDATORY	7TAC82
817-818	*775.10625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC82D*
897-898	775/805.60625	General Public Safety MANDATORY	7TAC86
897-898	*775.60625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC86D*
681-682	774/804.25625	Calling Channel MANDATORY per 90.531	7CALL2
681-682	*774.25625*	*Calling Channel MANDATORY per 90.531(Talk Around)*	*7CALL2D*
761-762	774/804.75625	General Public Safety MANDATORY	7TAC79
761-762	*774.75625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC79D*
841-842	775/805.25625	General Public Safety MANDATORY	7TAC83
841-842	*775.25625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC83D*
921-922	775/805.75625	General Public Safety MANDATORY DATA per 90.531	7DAT87
921-922	*775.75625*	*General Public Safety MANDATORY DATA per 90.531 (Talk Around)*	*7DAT87D*
143-144	764/794.89375	Fire Service	7FIR64
143-144	*764.89375*	*Fire Service (Talk Around)*	*7FIR64D*
159-160	764/794.99375	Fire Service	7FIR65
159-160	*764.99375*	*Fire Service (Talk Around)*	*7FIR65D*
721-722	774/804.50625	Fire Service	7FIR80
721-722	*774.50625*	*Fire Service (Talk Around)*	*7FIR80D*
777-778	774/804.85625	Fire Service	7FIR81
777-778	*774.85625*	*Fire Service (Talk Around)*	*7FIR81D*

APPENDIX C
Sample EMS/Emergency Management Service SIEC 700 MHz Channel Plan
Recommendations

CHANNEL CENTER in MHz		DESCRIPTION (Duplex/Simplex)	LABEL
23-24	764/794.14375	General Public Safety MANDATORY	7TAC58
23-24	*764.14375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC58D*
103-104	764/794.64375	General Public Safety MANDATORY	7TAC62
103-104	*764.64375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC62D*
183-184	765/795.14375	General Public Safety MANDATORY	7TAC66
183-184	*765.14375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC66D*
263-264	765/795.64375	General Public Safety MANDATORY	7TAC70
263-264	*765.64375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC70D*
39-40	764/794.24375	Calling Channel MANDATORY per 90.531	*7CALL1*
39-40	*764.24375*	*Calling Channel MANDATORY per 90.531 (Talk Around)*	*7CALL1D*
119-120	764/794.74375	General Public Safety MANDATORY	7TAC63
119-120	*764.74375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC63D*
199-200	765/795.24375	General Public Safety MANDATORY	7TAC67
199-200	*765.24375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC67D*
279-280	765/795.74375	General Public Safety MANDATORY DATA per 90.531	7DAT71
279-280	*765.74375*	*General Public Safety MANDATORY DATA per 90.531 (Talk Around)*	*7DAT71D*
657-658	774/804.10625	General Public Safety MANDATORY	7TAC74
657-658	*774.10625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC74D*
737-738	774/804.60625	General Public Safety MANDATORY	7TAC78
737-738	*774.60625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC78D*
817-818	775/805.10625	General Public Safety MANDATORY	7TAC82
817-818	*775.10625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC82D*
897-898	775/805.60625	General Public Safety MANDATORY	7TAC86
897-898	*775.60625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC86D*
681-682	774/804.25625	Calling Channel MANDATORY per 90.531	7CALL2
681-682	*774.25625*	*Calling Channel MANDATORY per 90.531(Talk Around)*	*7CALL2D*
761-762	774/804.75625	General Public Safety MANDATORY	7TAC79
761-762	*774.75625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC79D*
841-842	775/805.25625	General Public Safety MANDATORY	7TAC83
841-842	*775.25625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC83D*
921-922	775/805.75625	General Public Safety MANDATORY DATA per 90.531	7DAT87
921-922	*775.75625*	*General Public Safety MANDATORY DATA per 90.531 (Talk Around)*	*7DAT87D*
63-64	764/794.39375	Emergency Medical Service	7EMS60
63-64	*764.39375*	*Emergency Medical Service (Talk Around)*	*7EMS60D*
79-80	764/794.49375	Emergency Medical Service	7EMS61
79-80	*764.49375*	*Emergency Medical Service (Talk Around)*	*7EMS61D*
641-642	774/804.00625	Emergency Medical Service	7EMS76
641-642	*774.00625*	*Emergency Medical Service (Talk Around)*	*7EMS76D*
697-698	774/804.35625	Emergency Medical Service	7EMS77
697-698	*774.35625*	*Emergency Medical Service (Talk Around)*	*7EMS77D*

APPENDIX D
Sample "Other Service" SIEC 700 MHz Channel Plan Recommendations

CHANNEL CENTER in MHz		DESCRIPTION (Duplex/Simplex)	LABEL
23-24	764/794.14375	General Public Safety MANDATORY	7TAC58
23-24	*764.14375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC58D*
103-104	764/794.64375	General Public Safety MANDATORY	7TAC62
103-104	*764.64375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC62D*
183-184	765/795.14375	General Public Safety MANDATORY	7TAC66
183-184	*765.14375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC66D*
263-264	765/795.64375	General Public Safety MANDATORY	7TAC70
263-264	*765.64375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC70D*
39-40	764/794.24375	Calling Channel MANDATORY per 90.531	7CALL1
39-40	*764.24375*	*Calling Channel MANDATORY per 90.531 (Talk Around)*	*7CALL1D*
119-120	764/794.74375	General Public Safety MANDATORY	7TAC63
119-120	*764.74375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC63D*
199-200	765/795.24375	General Public Safety MANDATORY	7TAC67
199-200	*765.24375*	*General Public Safety MANDATORY (Talk Around)*	*7TAC67D*
279-280	765/795.74375	General Public Safety MANDATORY DATA per 90.531	7DAT71
279-280	*765.74375*	*General Public Safety MANDATORY DATA per 90.531 (Talk Around)*	*7DAT71D*
657-658	774/804.10625	General Public Safety MANDATORY	7TAC74
657-658	*774.10625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC74D*
737-738	774/804.60625	General Public Safety MANDATORY	7TAC78
737-738	*774.60625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC78D*
817-818	775/805.10625	General Public Safety MANDATORY	7TAC82
817-818	*775.10625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC82D*
897-898	775/805.60625	General Public Safety MANDATORY	7TAC86
897-898	*775.60625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC86D*
681-682	774/804.25625	Calling Channel MANDATORY per 90.531	7CALL2
681-682	*774.25625*	*Calling Channel MANDATORY per 90.531(Talk Around)*	*7CALL2D*
761-762	774/804.75625	General Public Safety MANDATORY	7TAC79
761-762	*774.75625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC79D*
841-842	775/805.25625	General Public Safety MANDATORY	7TAC83
841-842	*775.25625*	*General Public Safety MANDATORY (Talk Around)*	*7TAC83D*
921-922	775/805.75625	General Public Safety MANDATORY DATA per 90.531	7DAT87
921-922	*775.75625*	*General Public Safety MANDATORY DATA per 90.531 (Talk Around)*	*7DAT87D*
303-304	765/795.89375	Other Services	7TAC72
303-304	*765.89375*	*Other Services (Talk Around)*	*7TAC72D*
319-320	765/795.99375	Other Services	7TAC73
319-320	*765.99375*	*Other Services (Talk Around)*	*7TAC73D*
881-882	775/805.50625	Other Service	7TAC88
881-882	*775.50625*	*Other Service (Talk Around)*	*7TAC88D*
937-938	775/805.85625	Other Service	7TAC89
937-938	*775.85625*	*Other Service (Talk Around)*	*7TAC89D*